

Claims

What is claimed is:

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1. In a telecommunications system comprising an advanced intelligent network (AIN) wireline network connected to a wireless network, a method for providing an audio calling name and number feature to a wireless telephone in association with a telephone call from a calling party telephone to the wireless telephone, the method comprising the steps of:

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sending a message from an originating service switching point (SSP) associated with the calling party telephone to a terminating mobile switching center (MSC) associated with the wireless telephone, wherein the message comprises the directory number of the calling party telephone;

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tripping a wireless trigger at the terminating MSC and, in response, sending a query to a service control point (SCP);

querying a home location register (HLR) associated with the wireless telephone to determine whether the wireless telephone is available;

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if the wireless telephone is available, then forwarding a name and a number associated with the calling party telephone to a service node;

placing a call from the service node to the wireless telephone; and

playing an audio annunciation of the name and the number.

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2. The method of claim 1 wherein the name and the number are retrieved from a database by the SCP.

3. The method of claim 1 further comprising the steps of:
determining that the called party has rejected the call; and
dropping the outgoing call and playing an announcement to the calling party.

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4. The method of claim 3 wherein the rejection is an audible rejection from
the called party.

5. The method of claim 3 wherein the rejection comprises a keypad input
from the keypad of the wireless telephone.

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6. The method of claim 1 further comprising the steps of:
determining that the called party has accepted the call; and
connecting the call to the wireless telephone.

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7. The method of claim 6 wherein the acceptance is an audible rejection from
the called party.

8. The method of claim 6 wherein the acceptance comprises a keypad input
from the keypad of the wireless telephone.

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9. The method of claim 1 further comprising the steps of:
determining that the called party has sent the call to voicemail; and
connecting the call to the voicemail service of the wireless telephone.

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10. The method of claim 9 wherein the sending is an audible order from the
called party.

11. The method of claim 9 wherein the sending comprises a keypad input from the keypad of the wireless telephone.

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12. An audio calling name method for audibly announcing to a called party a calling name of a calling party in an Advanced Intelligent Network (AIN) in association with a call from the calling party to the called party, wherein the AIN includes a switch, a service node, and a service control point (SCP), wherein the service control point is

5 functionally connected to the switch and the service circuit node, wherein the service control point includes a database of subscriber information including a list of calling names associated with directory numbers, and wherein the audio calling name method comprises the steps of:

10 sending the calling party number in a message to a terminating mobile switching center (MSC) associated with a wireless telephone of the called party;

sending a query from the MSC to the SCP;

determining, at the SCP, the calling name associated with the calling party number;

15 forwarding the calling name and calling party number to the service node;

placing an outgoing call from the service node to the called party directory number; and

20 playing an announcement to the calling party, wherein the announcement comprises an audible annunciation of the calling name associated with the calling party number.

13. The method of claim 12 wherein the announcement further comprises an audible announcement of the calling party number.

14. The method of claim 12 further comprising the steps of determining whether the wireless telephone of the called party is available by querying a home location register (HLR) associated with the wireless telephone and if not, then playing a busy signal to the calling party.

15. The method of claim 12 wherein the announcement further comprises a list of possible ways for the called party to direct the call from the service node.

16. The method of claim 15 wherein the list comprises a rejection choice which allows the called party to reject the call and wherein a signal will be transmitted to the calling party.

17. The method of claim 15 wherein the list comprises an acceptance choice which allows the called party to answer the call and wherein a call will be connected between the calling party and the called party.

18. The method of claim 15 wherein the list comprises a voicemail choice which allows the called party to reject the call and wherein the calling party will be connected with the voicemail service for the called party.